

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: PFANNSCHMIDT-2

In re Application of:	)
BERND PFANNSCHMIDT et al.	)
Int. Appl. No.: PCT/EP2004/003475	)
Int. Filing Date: April 1, 2004	)
For: ELECTRICAL MACHINE HAVING	)
COOLED LAMINATED STATOR AND	)
ROTOR CORES AND WINDINGS	)

## INFORMATION DISCLOSURE STATEMENT

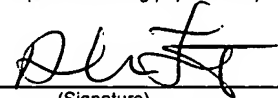
Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Express Mail mailing label number: **EV 780818444 US**Date of Deposit: **October 17, 2005**

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

**ANTONELLA FUSILLO**

(Name of person mailing paper or fee)



(Signature)

S I R:

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of attention of the Examiner to the references listed on enclosed form PTO-1449 which were cited in the instant specification and in the International Search Report issued by the European Patent Office with regard to the corresponding International patent application No. PCT/EP2004/003475, respectively. Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

Copies of these references are submitted herewith along with form PTO-1449. The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

- ☐ This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under 1.53(d), so that no fee under 37 C.F.R. §1.97 is due.
- ☒ This Information Disclosure Statement is filed within three months of the date of entry of the national stage as set forth in 1.491 in an international application, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action after the filing of a request for continued examination under §1.114, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed after the issuance of a first office but before issuance of a final action under §1.113, or a notice of allowance under §1.311.
- ☐ This Information Disclosure Statement is submitted after the mailing of a final action or a notice of allowance, but before payment of the issue fee.
- ☐ The undersigned submits the following statement requesting consideration of this statement:  
The undersigned hereby states:
  - ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement;
  - ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart

foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

- ☐ The fee of \$180.00 set forth in 1.17(p).
- ☐ The Commissioner is hereby authorized to charge the fee as set forth in 1.17(p), and any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.
- ☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

In order to satisfy the requirement under 37 C.F.R. §1.98(a)(3) for a concise explanation of the relevance of each item of information, applicant herewith submits a copy of the International Search Report. In addition, applicant notes with respect to any information that is not in English language as follows:

European patent application EP 0 522 210 describes an electrical machine having a slotted rotor (3) and a slotted stator (4) and having a ventilation system on one side, the air flow (Q1) which is passed through the machine has superimposed on it an additional air flow (Q4) which circulates and is added to the generated air flow (Q1) again at a point located upstream, after flowing around or through parts (11) of the rotor and of the stator.

German Pat. No. DE 100 18 642 corresponds to U.S. Pat. No. 6,359,350 to Kaiho et al. An English-language Abstract is also enclosed.

With respect to German Offenlegungsschrift DE 43 20 559, an English-language Abstract is enclosed.

European patent application No. EP 0 118 802 describes a gas-cooled a.c. machine having a rotor and a stator, each in the form of sheet metal packs, and a winding head, wherein in order to obtain optimum cooling of the rotor sheet metal pack, the stator sheet metal pack and the winding head, the machine is

constructed of a stator central part and two stator end parts and ducts are provided in the casing corners for the removal of the cooling gas. The ducts are bounded only by the walls of the casing and the back of the stator sheet metal pack, are separated by the stator sheet metal pack, and extend over the total length thereof. Cooling gas conveyed by fans is first conveyed into the inner winding head chamber or the rotor inlet flow chamber and there divided into two cooling circuits connected in parallel. In a first cooling circuit, the cooling gas is led through the rotor sheet metal pack and through the stator sheet metal pack, and in the second cooling circuit through the winding head. The stator end parts are each formed as cooling gas inlet and outlet casings and are provided with separating walls for separating the two cooling circuits. The separating walls have by-pass openings whose respective effective cross-sectional areas can be varied by displaceable cover plates.

German Offenlegungsschrift DE 195 14 592 corresponds to European patent No. EP 0 739 076 to Söhne, Walter. An English-language Abstract is also enclosed.

German patent No. DE 100 54 338 corresponds to European Pat. No. EP 1204 193 to Eberhardt, Heinz Dieter. An English-language Abstract is also enclosed.

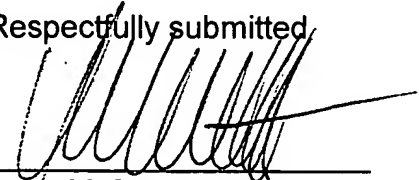
German Offenlegungsschrift DE 24 23 853 describes an enclosed electric machine with a stator having radial cooling slots and a heat exchanger disposed between the stator back and the housing jacket exchanger and having cooling pipes for ambient air. The heat exchanger is divided in chambers which are open to the stator back. The rotor has radial cooling slots which are alternatingly connected to one or the other fan via axial air channels in the rotor.

European Pat. No. EP 0 387 743 describes an electrical motor of enclosed type having a stator magnetic circuit and a cowling with a surround and two endplates. A first ventilation circuit (20, 14, 15, 16) is provided for the stator magnetic circuit and a second ventilation circuit (25) is disposed inside the cowling, wherein the two ventilation circuits are dissociated. The ventilation circuit

of the stator magnetic circuit includes a plurality of channels (14) crossing right through the circuit and connected by metal tubes (15, 16) emerging outside the cowling.

German Offenlegungsschrift DE 44 13 389 describes an electrical machine having two laminated rotor cores (1, 2) which are arranged at an axial distance from one another on a common shaft (3), two laminated stator cores (4, 5) which are arranged at a corresponding distance from one another, and a cooling device which has an air feed device (25) as well as cooling ducts (21) running in the axial direction. The cooling ducts are each divided into two sections as a consequence of the axial distance between the laminated cores (1, 2, 4, 5) and are connected to the air feed device (25) in such a manner that the flow passes through the two sections of each cooling duct (21) in the opposite direction, and the cooling air is deflected from an axial direction into a radial direction, or vice versa, in the annular space (7) between the laminated cores (1, 2, 4, 5). The axial distance between the laminated cores (1, 2, 4, 5) is in this case selected such that the available flow cross-section in the annular space (7) between the laminated cores (1, 2, 4, 5) for the cooling air is approximately equal to the sum of the flow cross-sections of all the cooling ducts (18, 18', 21) which open directly into this annular space (7).

The above-identified application discloses and claims an invention patentable over this prior art. Entry of the references above set forth into the file of the above application is believed to be in order and is respectfully requested.

Respectfully submitted,  
  
By: \_\_\_\_\_  
Henry M. Feiereisen  
Agent for Applicant  
Reg. No. 31,084

Date: October 17, 2005  
350 Fifth Avenue, Suite 4714  
New York, N.Y. 10118  
(212) 244-5500  
HMF:af

10/553698

JC09 Rec'd PCT/PTO 17 OCT 2005

Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark Office

## INFORMATION DISCLOSURE CITATION

<b>Attorney's Docket No.</b>  PFANNSCHMIDT-2	<b>Applicant</b>  B. PFANNSCHMIDT et al.	<b>Int. Appl. No.</b>  PCT/EP2004/003475
<b>Int. Filing Date</b> April 1, 2004	<b>Group</b>	<b>Examiner</b>

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date, if appropriate
	4,352,034	09-28-1982	Karahan et al.			
	1,196,345	08-29-1916	A.B. Field			
	2,610,992	09-16-1952	F.J. Johns et al.			
	6,359,350	03-19-2002	Kaiho et al.			

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation
-	DE 39 25 337	02-07-1991	Germany			no
-	JP 61 218333	09-27-1986	Japan			abstract
-	DE 680 039	08-21-1939	Germany			no
-	FR 2 349 228	11-18-1977	France			no
-	JP 2000 278914	10-06-2000	Japan			abstract
-	GB 230 137	03-06-1925	Great Britain			
-	EP 0 387 743	09-19-1990	Europe			no
-	DE 197 42 255	11-26-1998	Germany			no
-	JP 56 125941	10-02-1981	Japan			abstract
-	DE 528 381	06-30-1931	Germany			no
-	EP 522 210	01-13-1993	Europe			no
-	DE 100 18 642	11-02-2000	Germany			no
-	DE 43 20 559	12-22-1994	Germany			no
-	EP 0 118 802	09-19-1984	Europe			no
-	DE 195 14 592	10-24-1996	Germany			no
-	EP 0 739 076	06-16-1999	Europe			no
-	DE 100 54 338	07-25-2002	Germany			no
-	EP 1 204 193	05-08-2002	Europe			no
-	DE 24 23 853	11-20-1975	Germany			no
-	EP 0 387 743	09-19-1990	Europe			no
-	DE 44 13 389	12-01-1994	Germany			no

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner:

Date considered:

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.